

In The Claims

1. (Original) A system for monitoring processes of an information technology (IT) system, the system comprising:
 - a monitor agent configured to collect performance and availability metrics associated with at least one of a host machine, a network, an operating system, a database, and an application;
 - a data loader, wherein the monitor agent is further configured to transmit the metrics to the data loader;
 - an escalation server configured to receive and manage alerts generated by the monitor agent, and further configured to group an alert entering the escalation server into a resource group; and
 - an analysis tool including an analysis tool application configured to assist a system manager in visualizing and understanding the performance of the information technology system through the use of at least one of a visual graph, a performance report, a real-time operating status, and a system health report.
2. (Original) The system of Claim 1, wherein the metrics are transmitted to the data loader by way of one of HTTP, HTTPS, and SMTP.
3. (Original) The system of Claim 2, wherein the metrics are transmitted to the data loader as a serialized XML stream, and wherein the data loader is further configured to deserialize the XML stream.
4. (Original) The system of Claim 3, wherein the data loader is further configured to store each metric received from the monitor agent and to relate each metric with previously collected metrics associated with one of a same host machine, a same network, a same operating system, a same database, and a same application.

5. (Original) The system of Claim 4, further comprising an in-memory caching system configured to lookup metric-host groupings while minimizing database traffic.
6. (Original) The system of Claim 1, wherein the resource group is one of data related alerts, application related alerts, and operating system alerts.
7. (Original) The system of Claim 1, wherein the analysis tool includes at least one of:
 - a data aggregation processing application;
 - a custom graphing engine;
 - a reporting engine; and
 - a web portal.
8. (Original) The system of Claim 1, wherein the analysis tool application includes at least one of:
 - a data aggregation processing application;
 - a custom graphing engine;
 - a reporting engine; and
 - a web portal.
9. (Original) The system of Claim 1, wherein the analysis tool is configured to convert raw measurement data into aggregate data for various time intervals, wherein aggregated data includes aspects of the raw measurement data for a given duration, the aspects including at least one of a minimum, a maximum, a mean, a median, a standard deviation, a skew, a kurtosis, and a percentile.
10. (Original) The system of Claim 1, wherein the analysis tool is driven by a rollup daemon, the rollup daemon being a scaleable, distributable sub-system that processes incoming raw data and summarizes the incoming raw data according to time intervals specified by a given metric's assigned generic data category.

11. (Original) A method of monitoring processes of an information technology (IT) system, the method comprising:
collecting via a monitor agent performance and availability metrics associated with at least one of a host machine, a network, an operating system, a database, and an application;
transmitting the metrics from the monitor agent to a data loader;
transmitting alerts from the monitor agent to an escalation server, wherein the escalation server is configured to group an alert entering the escalation server into a resource group; and
analyzing the metrics and alerts using an analysis tool that includes an analysis tool application configured to assist a system manager in visualizing and understanding the performance of the information technology system through the use of at least one of a visual graph, a performance report, a real-time operating status, and a system health report.
12. (Original) The method of Claim 11, wherein the step of transmitting the metrics comprises serializing the metrics into an XML stream.
13. (Original) The method of Claim 12, further comprising:
storing each transmitted metric; and
relating each transmitted metric with previously collected metrics associated with one of a same host machine, a same network, a same operating system, a same database, and a same application.
14. (Original) The method of Claim 11, wherein the steps of the method are stored on a computer-readable medium as one or more instructions, wherein the one or more instructions, when executed by one or more processors, cause the one or more processors to perform the steps of the method.

15. (Original) A data loader of a processes monitoring system for an information technology (IT) system, wherein the data loader is configured to receive metrics on a host machine from a monitor agent, wherein the metrics are described in a data repository according to a hierarchical metric taxonomy that conceptually relates classes of metrics with one another.
16. (Original) The data loader of Claim 15, wherein the data loader is further configured to store each metric received from the monitor agent and to relate each metric with previously collected metrics sharing a same host machine.
17. (Original) The data loader of Claim 15, wherein the data loader is further configured to receive XML serialized metrics on the host machine from the monitor agent, wherein the data loader is further configured to deserialize the XML serialized metrics.
18. (Original) The data loader of Claim 15, wherein each metric is configured to be grouped into a branch of one of:
 - data related to the host operating system;
 - data related to the host machine;
 - data related to a host application; and
 - data related to a host database.
19. (Original) The data loader of Claim 18, wherein each branch is configured to be refined and classified into one or more sections, wherein one or more metric paths to each section are associated with individual hosts for which corresponding data is collected, wherein collected data is configured to be cataloged to a particular metric path and individual host, wherein the collected data is configured to be retrievable for subsequent analysis.

20. (Original) The data loader of Claim 15, wherein individual metric paths that describe data gathered for a particular host are tied to a generic data path, wherein the generic data path is not tied to any host and describes a general family of metric paths.